SUPPORTING INFECTIOUS DISEASE RESEARCH

# Bacillus cereus, Strain Tor 16585

# Catalog No. NR-12151

# For research use only. Not for human use.

### **Contributor:**

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## Manufacturer:

NIH Biodefense and Emerging Infections Research Resources Repository

### **Product Description:**

Bacteria Classification: Bacillaceae, Bacillus Species: Bacillus cereus Strain: Tor 16585

<u>Original Source</u>: *Bacillus cereus* (*B. cereus*), strain Tor 16585 was isolated from left arm tissue of a patient from Long Island, New York with an open fracture on August 12, 2005.<sup>1</sup>

*B. cereus* is a Gram-positive, spore-forming, facultative aerobe. This organism is a ubiquitous opportunistic pathogen that can cause food poisoning in infected individuals. There are two forms of food poisoning that occur. The early onset (emetic) disease is caused by a small, stable dodecadepsipeptide cerulide<sup>2</sup> whereas the late onset (diarrheal) disease is caused by heat-labile enterotoxins.<sup>3</sup> Genetic and genomic analyses have revealed that the chromosome of *B. cereus* is very similar to *B. anthracis.*<sup>4</sup>

### Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy Broth supplemented with 10% glycerol.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

## Packaging/Storage:

NR-12151 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

# **Growth Conditions:**

Media: Tryptic Soy Broth or equivalent Tryptic Soy Agar with 5% sheep blood or equivalent Incubation: Temperature: 37°C Atmosphere: Aerobic

### Propagation:

- 1. Keep vial frozen until ready for use; thaw slowly.
- 2. Transfer the entire thawed aliquot into a single tube of broth.
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate the tubes and plate at 37°C for 24 hours.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Bacillus cereus*, Strain Tor 16585, NR-12151."

### **Biosafety Level: 2**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see <u>www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5/bmbl5toc.htm</u>.

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### **References:**

- 1. George T. Tortora, personal communication.
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